

RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of the meteorological contents of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

Astronomical society of the Pacific. Publications. San Francisco. v. 29. October, 1917.

Campbell, W. W. The war and the weather. p. 200-202.

Aviation. New York. v. 3. October 1, 1917.

Taylor, G. I. Fog conditions. p. 311-313.

Engineering news-record. New York. v. 79. 1917.

Run-off equaled rainfall. p. 699. (Oct. 11.) [A "record" 24-hour rainfall for January in Chicago.]

Ingberg, S. H. Tornado effects on structures in three recent storms. Suggestions as to the design of dwellings and small structures to resist high winds, deduced from observations of buildings wrecked by tornadoes in middle western States. p. 733-736. (Oct. 18.)

Franklin institute. Journal. Philadelphia. v. 184. October, 1917.

Humphreys, W[illiam] J[ackson]. Physics of the air. (Chapter 7.) p. 527-551.

Geographical review. New York. v. 4. October, 1917.

Brooks, Charles F. The severe winter of 1917 in Scandinavia. p. 319-320. [Abstract from *La Nature*, with comments by abstractor.]

Meteorological society of Japan. Journal. 36th year. 1917.

Fujiwhara, Sakuhei. The ondometer. A newly designed instrument for measuring the direction, velocity, period, and length of the waves of the sea. p. 81-84. [Used at shore stations to study waves produced by typhoons.]

Hasegawa, K. Epicenter distance and the duration of the preliminary tremor of an earthquake of very near origin. p. 33-35.

Nature. London. v. 100. September 20, 1917.

Allen, F. J. The audibility of distant gunfire. p. 44.

C., W. E. Bird migration in central Switzerland in relation to meteorological conditions. p. 47-48. [Abstract of memoir by K. Bretscher.] [This REVIEW, p. 451.]

Royal astronomical society of Canada. Journal. Toronto. v. 11. September, 1917.

Patterson, J. Long-range forecasting and other weather illusions. p. 261-280.

Klotz, Otto. The rainbow. p. 292-296.

Science abstracts. London. v. 20. July 30, 1917.

Masini, A. Factors influencing the condensation of aqueous vapor in the atmosphere. p. 261-262. [Abstract from *Nuovo cimento*.] [See this REVIEW, August, 1917, p. 412.]

Scientific American supplement. New York. v. 84. 1917.

Hawke, E. L. Rainfall and gunfire. p. 227. (Oct. 13.) [Abstract of article by Augot. Repr. from *Nature*.] [See this REVIEW, p. 450.]

Asher, James. New thermometer scale. p. 262. (Oct. 27.) [Author says he suggested in 1887 the scale recently proposed by McAdie.]

Air pollution in London. p. 267. (Oct. 27.)

Scottish geographical magazine. Edinburgh. v. 33. September, 1917.

Knott, C. G. Further studies on earthquake waves. p. 406-422.

Terrestrial magnetism. Baltimore. v. 22. September, 1917.

Swann, W. F. G. Note concerning the measurement of ionic density on the top of a tower. p. 125-127.

Störmer, Carl. Corpuscular theory of the aurora borealis. p. 97-112.

Swann, W. F. G. Gockel's recent atmospheric-electric observations in Switzerland. p. 135-138. [Abstract of work by Gockel.]

France. Bureau central météorologique. Annales. Paris. Année 1911, no. 1.

Angot, Alfred. Études sur le climat de la France. p. 109-235.

Astronomie. Paris. 31 année. Juillet, 1917.

Visibilité des ondes sonores? p. 248-249. [Several cases of visible sound-waves ("flashing arc") in connection with cannonading.]

Académie des sciences. Comptes rendus. Paris. t. 165. 3 septembre, 1917.

Mascart, Jean. Hiver 1917: halos et arc-en-ciel. p. 343-345. [Mentions a doubtful case of the tertiary rainbow.]

Reale accademia dei Lincei. Atti. Roma. v. 26. 1° semestre. 3 giugno, 1917.

Chistoni, C[iro], & Malladra, A[lessandro]. Singolare precipitazione acquosa osservata al Vesuvio. p. 606-607.

Eredia, Filippo. Correlazione tra la temperatura dell'Italia e dell'Egitto. p. 607-609.